## CLAIMS

- 1. (Cancelled)
- 2. (Cancelled).
- 3. (Cancelled).
- 4. (Cancelled).
- 5. (Currently amended) A multifilament <u>yarn</u> comprising a linear polylactic acid with a relative viscosity ηrel of in the range of 2.7 to 3.9, prepared from lactic acid monomers wherein at least 98 mol% of the lactic acid is an L-isomer, and wherein the resin contains 0 to 30 ppm of Sn and 0 to 0.5% by weight of residual monomer.
- 6. (Currently amended) A multifilament <u>yarn</u> comprising a linear polylactic acid with a weight average molecular weight Mw in the range of 120,000 to 220,000 and a number average molecular weight Mn in the range of 60,000 to 110,000, prepared from lactic acid monomers wherein at least 98 mol% of the lactic acid is an L-isomer, and wherein the resin contains 0 to 30 ppm of Sn and 0 to 0.5% by weight of residual monomer.
- 7. (Currently amended) A multifilament <u>yarn</u> according to claim 5 having a tensile strength of 3.9 cN/dtex or more, a contraction ratio in boiling water of 12% or less, a birefringence, Δn, of 0.030 or more, and a thermal stress peak temperature of 85°C or more.
- 8. (Currently amended) A polylactic acid multifilament <u>yarn</u> according to claim 5 having an inert content of 3.0% or less and a contraction ratio in boiling water of 12% or less.
- 9. (Currently amended) A process for producing a polylactic acid multifilament yarn using a polylactic acid comprising a linear polylactic acid with a relative

viscosity  $\eta$ rel of in the range of 2.7 to 3.9, prepared from lactic acid monomers wherein at least 98 mol% of the lactic acid is an L-isomer, and wherein the resin contains 0 to 30 ppm of Sn and 0 to 0.5% by weight of residual monomer wherein the process steps comprise: spinning the resin at a speed in the range of 3,000 m/min to 5,000 m/min; drawing at a draw magnification factor 1.3 times or more at a temperature in the range of 100°C to 125°C; and heat-setting at a temperature in the range of 125°C to 150°C.

- 10. (Currently amended) A process for producing a polylactic acid <u>multifilament</u> <u>yarn</u> using a polylactic acid comprising a linear polylactic acid with a weight average molecular weight Mw in the range of 120,000 to 220,000 and a number average molecular weight Mn in the range of 60,000 to 110,000, prepared from lactic acid monomers wherein at least 98 mol% of the lactic acid is an L-isomer, and wherein the resin contains 0 to 30 ppm of Sn and 0 to 0.5% by weight of monomer wherein the process steps comprise: spinning the resin at a speed in the range of 3,000 m/min to 5,000 m/min; drawing at a draw magnification factor of 1.3 times or more at a temperature in the range of 100°C to 125°C; and heat-setting at a temperature in the range of 125°C to 150°C.
- 11. (Currently amended) A process for producing polylactic acid multifilament <a href="mailto:yarn\_using">yarn\_using</a> the polylactic acid resin according to claim 5 wherein drawing is between a first heated roller (1) and a second heated roller (2) followed by heat-setting with the second heated roller (2).

12-75 (Cancelled).